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	TOTAL MED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
FILING DATE	FIRST NAMED INVESTOR		8798
07/20/2001	A. John Speranza	PES-0042	
		EXAMINER	
,,,		SINES, E	BRIAN J
LBURN, LLP			
OAD SOUTH		ART UNIT	PAPER NUMBER
, CT 06002		1743	
		07/20/2001 A. John Speranza 90 06/02/2004 LBURN, LLP DAD SOUTH	07/20/2001 A. John Speranza PES-0042 90 06/02/2004 EXAM LBURN, LLP DAD SOUTH ART UNIT

DATE MAILED: 06/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)			
Office Action Summary		09/909,845	SPERANZA ET AL.			
		Examiner	Art Unit			
		Brian J. Sines	1743			
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
	1) Responsive to communication(s) filed on 19 March 2004.					
	This action is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims					
4)⊠ Claim(s) <u>1-28 and 43-47</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
	Claim(s) is/are allowed.					
	Claim(s) <u>1-15,17-20,22-26 and 43-47</u> is/are reje	cted.				
	Claim(s) <u>16,21,27 and 28</u> is/are objected to.					
8)[_]	Claim(s) are subject to restriction and/or	election requirement.				
Application	on Papers					
9) 🗆 -	The specification is objected to by the Examiner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	nder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the continued action and action as the second action.						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(•					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) 🔲 Informa	ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) L Notice of Informal Pate	ent Application (PTO-152)			
Paper	No(s)/Mail Date	6)	·			

Art Unit: 1743

DETAILED ACTION

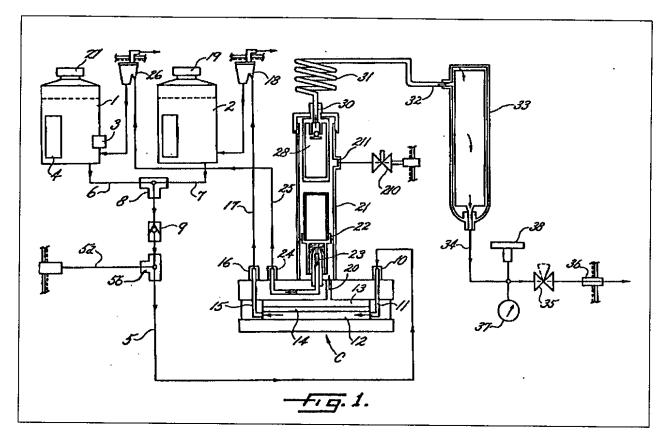
Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless ~

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 1. Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Young et al. (U.S. Pat. No. 5,037,518). Regarding claims 1 and 2, Young et al. teach an apparatus comprising: an electrochemical cell (C); an electrical energy source or power supply configured for providing a quantity of electrical energy to the electrochemical cell; a sensing apparatus (pressure transducer 38) in operable communication with a gas output from the electrochemical cell, wherein the sensing apparatus is adapted to provide an output signal indicative of a parameter (e.g., pressure of hydrogen gas) of the gas output; a computer (e.g., SCR circuits 505) in operable communication with the sensing apparatus and the electrical energy source, wherein the computer includes a memory device configured to store a first operational parameter; and a processor configured to receive a digital representation of the output signal and first operational parameter, wherein the processor is configured to compare the digital representation of the output signal to the first operational parameter and to regulate the quantity of energy provided to the electrochemical cell in response thereto (see col. 6, lines 13 23; col. 8, lines 1 14).

Art Unit: 1743

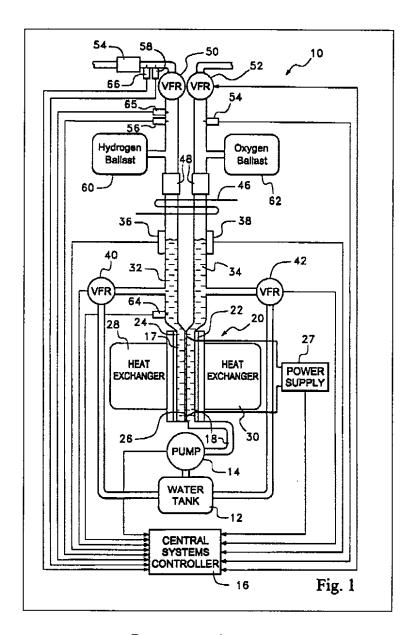


2. Claims 1 – 15, 17 – 20, 22 – 26 and 43 – 47 are rejected under 35 U.S.C. 102(e) as being anticipated by Bossard (U.S. Pat. No. 6,303,009 B1). Regarding claims 1, 2, 43 and 47, Bossard teaches an apparatus and method of operating the apparatus, wherein the apparatus comprises: an electrochemical cell (20); an electrical energy source or power supply (27) configured for providing a quantity of electrical energy to the electrochemical cell; a sensing apparatus (e.g., pressure sensors 56, 54 & 59) in operable communication with a gas output from the electrochemical cell, wherein the sensing apparatus is adapted to provide an output signal indicative of a parameter (e.g., gas pressure) of the gas output; a computer (central systems controller 16) in operable communication with the sensing apparatus and the electrical energy source, wherein the computer includes a memory device configured to store a first operational parameter; and a processor configured to receive a digital representation of the output signal and

Art Unit: 1743

first operational parameter, wherein the processor is configured to compare the digital representation of the output signal to the first operational parameter and to regulate the quantity of energy provided to the electrochemical cell in response thereto (see col. 3, lines 30 - 67; col. 4, lines 1-67; col. 5, lines 1-65; figure 1). Regarding claims 3-12 and 44-47, these claims recite various functional limitations. However, these claims are drawn to an apparatus statutory class of invention. These claims recite no other structural limitations to delineate the claimed apparatus from the apparatus disclosed by the prior art. The applicant is advised that the Courts have held that apparatus claims must be structurally distinguishable from the prior art in terms of structure, not function. See In re Danley, 120 USPQ 528, 531 (CCPA 1959); and Hewlett-Packard Co. V. Bausch and Lomb, Inc., 15 USPQ2d 1525, 1528 (Fed. Cir. 1990). The Courts have held that the manner of operating an apparatus does not differentiate an apparatus claim from the prior art, if the prior art apparatus teaches all of the structural limitations of the claim. See Ex Parte Masham, 2 USPQ2d 1647 (BPAI 1987) (see MPEP § 2114). Regarding claims 13 -15, 17-20, 22-26, Bossard teaches all of the structure of the apparatus provided in the claimed method, which merely recites the conventional operation of that apparatus. Bossard teaches a method of operation where gas output is computer controlled by decreasing or increasing the electrical current to the proton exchange membrane (see col. 5, lines 1-67). Regarding process or method claims, a prior art device anticipates a claimed process, if the device carries out the process during normal operation (see MPEP § 2112.02). The Courts have held that when a prior art device is the same as a device described in the specification for carrying out the claimed method, it can be assumed that the device will inherently perform the claimed process. See In re King, 801 F.2d 1324, 231 USPQ 136 (Fed. Cir. 1986).

Art Unit: 1743



Response to Arguments

Applicant's arguments with respect to claims 1-28 have been considered but are most in view of the new ground(s) of rejection.

Art Unit: 1743

Allowable Subject Matter

Claims 16, 21, 27 and 28 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

The cited prior art neither teach or fairly suggest that the method further comprise a step of adjusting at least one of a predetermined operating value and predetermined variance based upon feedback from the electrical source. The cited prior art neither teach or fairly suggest that the method further comprise a step for determining a predetermined value based upon the quantity of electrical energy to the electrochemical cell.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Art Unit: 1743

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian J. Sines, Ph.D. whose telephone number is (571) 272-1263. The examiner can normally be reached on Monday - Friday (11:30 AM - 8 PM EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on (571) 272-1267. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jill Warden
Supervisory Patent Examiner
Technology Center 1700